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EAST 7/31/04

L Number	Hits	Search Text	DB	Time stamp
3	1	"20030160367"	USPAT; US-PGPUB	2004/07/31 11:45
4	0	"20030160367" and stamped	USPAT; US-PGPUB	2004/07/31 11:45
5	53072	stamped	USPAT; US-PGPUB	2004/07/31 11:46
6	3	stamped adj support adj ring	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 11:47
7	91	stamped adj ring	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 11:47
8	2	DE adj2 "1964522"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 11:50
9	2	DE adj2 "19645228"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 11:58
10	2	DE adj2 "4135900"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 11:52
11	1	("4643407").PN.	USPAT; US-PGPUB	2004/07/31 12:01
12	1	("3157396").PN.	USPAT; US-PGPUB	2004/07/31 12:06
13	7	3157396.URPN.	USPAT	2004/07/31 12:02
14	0	(f16f009/04.ipc.).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:07
15	0	(f16f9/04.ipc.).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:07
16	1614	f16f009/04.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:08
17	598	f16f009/05.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:08
18	2113	f16f009/04.ipc. or f16f009/05.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:08
19	22	(f16f009/04.ipc. or f16f009/05.ipc.) and support adj ring	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:12
20	4	6286820.URPN.	USPAT	2004/07/31 12:09
21	11	("2980441"   "3000624"   "3147671"   "3181853"   "4325541"   "4398704"   "4588171"   "4712776"   "4771994"   "6089552"   "6168143").PN.	USPAT	2004/07/31 12:10
22	4	("5375683"   "5487535"   "5667203"   "5810335").PN.	USPAT	2004/07/31 12:11
23	13	(f16f009/04.ipc. or f16f009/05.ipc.) and stamped	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:13

24	21	(f16f009/04.ipc. or f16f009/05.ipc.) and centering	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:20
25	5	(f16f009/04.ipc. or f16f009/05.ipc.) and (s adj shaped or z adj shaped)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:20
26	1	(f16f009/04.ipc. or f16f009/05.ipc.) and (guide or guiding or centering) near3 (ring or member) with tube	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:22
27	0	(f16f009/04.ipc. or f16f009/05.ipc.) and (guide or guiding or centering) near3 openings!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:22
28	6	(f16f009/04.ipc. or f16f009/05.ipc.) and (guide or guiding or centering) near3 opening	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:26
29	61026	klitsch.in. or brehm.in. or muller.in. or mueller.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:24
30	21	(klitsch.in. or brehm.in. or muller.in. or mueller.in.) and (f16f009/04.ipc. or f16f009/05.ipc.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:25
31	0	(f16f009/04.ipc. or f16f009/05.ipc.) and zig adj zag	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:27
32	3	(f16f009/04.ipc. or f16f009/05.ipc.) and zigzag	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 12:27

	148	("4486939" "4302043" RE31746 "5220771" "5597196" "5924758" "4286421" "4293364" "4331288" "4446616" "4826008" "4834316" "4844957" "4922683" "4977002" "5240529" "5392591" "5403635" "5570565" "5613517" "5775357" "5918742" "5921424" "5931183" "6053386" "6131785" "6158256" "6187469" "4536636" "4583951" "5406703" "4575422" "4908895" "6179327" "5248065" "5464169" "5471931" "4322158" "4368630" "4406143" "4428543" "4455727" "4526314" "4790294" "4830402" "4946114" "4999651" "5004173" "5241800" "5392625").pn. ("5429062" "5529153" "5645942" "5788270" "5910165" "6059813" "6059813" "6099029" "6128076" "6142720" "6176028" "6197159" "6218340" "6218340" "6238410" "6244619" "3846781" "4094128" "4263468" "4266736" "4270891"	USPAT; US-PGPUB	2004/07/31 10:49
Search History 7/31/04 12:26:01 PM Page 3 C:\APPS\east\workspaces\1088537.p.wsp				

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Search History 7/31/04 12:26:01 PM Page 4 C:\APPS\least\workspaces\j0889578.wsp				

-	10016	(air or gas or pneumatic) adj spring	USPAT;	2004/07/31 10:49
-	0	de adj2 "10208559"	US-PGPUB	
-	1	DE adj2 "10244776"	USPAT;	2004/07/31 10:55
-	6	(("3,046,002") or ("3,749,210") or ("4,022,448") or ("4,828,232") or ("5,460,354") or ("6,585,239")).PN.	US-PGPUB;	
-	1	2003-636283.NRAN.	EPO; JPO;	
-	1	2003-636283.NRAN.	DERWENT	2004/07/31 11:18
-	2	DE adj2 "10024983"	USPAT;	
-	2	DE adj2 "19903553"	US-PGPUB;	
-	1	2000-648047.NRAN.	EPO; JPO;	
-	1	6116584.pn.	DERWENT	2004/07/31 11:25
-	1	6116584.URPN.	USPAT;	
-	4	("5375683"   "5487535"   "5667203"   "5810335").PN.	US-PGPUB;	
-	2	DE adj2 "19645228"	EPO; JPO;	
-	1	1998-272923.NRAN.	DERWENT	2004/07/31 11:19
			USPAT;	2004/07/31 11:20
			US-PGPUB	
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			USPAT	2004/07/31 11:21
			USPAT;	2004/07/31 11:45
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
			DERWENT	2004/07/31 11:26

PLUS

7/31/04

**Butler, Douglas**

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**From:** PLUS  
**Sent:** Friday, July 30, 2004 12:51 PM  
**To:** Butler, Douglas  
**Subject:** PLUS Results for 10668578

Here are the PLUS search results for 10668578.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10668578\_QUAL.txt



10668578\_LIST.txt



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## 10668578\_LIST

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PLUS Search Results for S/N 10668578, Searched July 30, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10668578\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10668578 on July 30, 2004

Original Classifications

4 296/98  
3 53/551  
3 428/34.7  
3 606/198  
2 53/435  
2 72/209  
2 242/533.2  
2 280/729  
2 280/756  
2 428/35.2  
2 505/432

Cross-Reference Classifications

5 53/585  
4 53/567  
4 428/192  
3 53/450  
3 53/576  
3 215/12.1  
3 242/542  
3 428/34.9  
3 428/347  
3 428/906  
2 26/84  
2 29/599  
2 53/291  
2 53/292  
2 53/429  
2 53/430  
2 53/438  
2 53/459  
2 53/515  
2 53/530  
2 53/550  
2 53/556  
2 162/358.3  
2 280/730.2  
2 340/689  
2 383/37  
2 383/904  
2 425/326.1  
2 428/220  
2 428/35.5  
2 428/913

Combined Classifications

5 53/585  
4 53/551  
4 53/567  
4 242/542  
4 296/98  
4 428/192  
3 53/450  
3 53/459

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 2 383/37  
 2 383/904  
 2 425/326.1  
 2 428/220  
 2 428/35.2  
 2 428/35.5  
 2 428/913  
 2 505/432

## 10668578\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10668578 on July 30, 2004

- 5 53/585 (0 OR, 5 XR)  
Class 053 : PACKAGE MAKING  
53/580 PARTIAL COVER APPLICATION  
53/582 .Band or tube  
53/585 ..Preformed tube
- 4 53/551 (3 OR, 1 XR)  
Class 053 : PACKAGE MAKING  
53/545 PROGRESSIVELY SEAMED COVER WEB OR WEB FOLDS  
53/548 .With closing of web between package units  
53/550 ..Longitudinal tube formed from single web  
53/551 ...Vertically disposed tube
- 4 53/567 (0 OR, 4 XR)  
Class 053 : PACKAGE MAKING  
53/558 APPARATUS FOR FORMING OR PARTIALLY FORMING  
RECEPTACLE AND SUBSEQUENTLY FILLING  
53/564 .Forming by opening or setting up collapsed  
receptacle  
53/567 ..Flexible tubular stock - preformed continuous  
tube
- 4 242/542 (1 OR, 3 XR)  
Class 242 : WINDING, TENSIONING, OR GUIDING  
242/520 CONVOLUTE WINDING OF MATERIAL  
242/540 .With particular drive  
242/541 ..Driver engages coil periphery  
242/542 ...Plural drums
- 4 296/98 (4 OR, 0 XR)  
Class 296 : LAND VEHICLES: BODIES AND TOPS  
296/225 TOPS  
296/98 .Roll-up covers
- 4 428/192 (0 OR, 4 XR)  
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
428/98 STRUCTURALLY DEFINED WEB OR SHEET (E.G.,  
OVERALL DIMENSION, ETC.)  
428/192 .Edge feature
- 3 53/450 (0 OR, 3 XR)  
Class 053 : PACKAGE MAKING  
53/396 METHODS  
53/450 .Enclosing contents within progressively formed  
web means
- 3 53/459 (1 OR, 2 XR)  
Class 053 : PACKAGE MAKING  
53/396 METHODS  
53/452 .Forming or partial forming a receptacle and  
subsequent filling  
53/457 ..Opening or setting up collapsed, preformed  
receptacle  
53/459 ...Bag, tube, center-folded web

## 10668578\_CLSTITLES

- 3 53/550 (1 OR, 2 XR)  
 Class 053 : PACKAGE MAKING  
 53/545 PROGRESSIVELY SEAMED COVER WEB OR WEB FOLDS  
 53/548 .With closing of web between package units  
 53/550 ..Longitudinal tube formed from single web
- 3 53/576 (0 OR, 3 XR)  
 Class 053 : PACKAGE MAKING  
 53/558 APPARATUS FOR FORMING OR PARTIALLY FORMING  
 RECEPTACLE AND SUBSEQUENTLY FILLING  
 53/574 .Forming receptacles whereby the receptacle is  
 subsequently filled while on the forming means  
 53/575 ..Hollow forming mandrel or plunger  
 53/576 ...Tubular receptacle stored on mandrel
- 3 215/12.1 (0 OR, 3 XR)  
 Class 215 : BOTTLES AND JARS  
 215/12.1 MULTILAYER BARRIER STRUCTURE
- 3 242/533.2 (2 OR, 1 XR)  
 Class 242 : WINDING, TENSIONING, OR GUIDING  
 242/520 CONVOLUTE WINDING OF MATERIAL  
 242/533 .With spool loading or coil removal  
 242/533.2 ..Pivotal transfer device
- 3 280/730.2 (1 OR, 2 XR)  
 Class 280 : LAND VEHICLES  
 280/29 WHEELED  
 280/727 .Attachment  
 280/728.1 ..Inflatable passenger restraint or confinement  
 (e.g., air bag) or attachment  
 280/730.1 ...Inflated confinement specially positioned  
 relative to occupant or conforming to the body shape of  
 occupant  
 280/730.2 ....Mounted in vehicle and positioned laterally  
 of occupant
- 3 280/756 (2 OR, 1 XR)  
 Class 280 : LAND VEHICLES  
 280/29 WHEELED  
 280/727 .Attachment  
 280/756 ..Roll bars and/or overhead guards
- 3 428/34.7 (3 OR, 0 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/34.1 HOLLOW OR CONTAINER TYPE ARTICLE (E.G., TUBE,  
 VASE, ETC.)  
 428/34.4 .Glass, ceramic, or sintered, fused, fired, or  
 calcined metal oxide or metal carbide containing (e.g.,  
 porcelain, brick, cement, etc.)  
 428/34.6 ..Multilayer (continuous layer)  
 428/34.7 ...Polymer or resin containing (i.e., natural  
 or synthetic)
- 3 428/34.9 (0 OR, 3 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/34.1 HOLLOW OR CONTAINER TYPE ARTICLE (E.G., TUBE,  
 VASE, ETC.)  
 428/34.9 .Shrinkable or shrunk (e.g., due to heat,



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solvent, volatile agent, restraint removal, etc.)

- 3 428/347 (0 OR, 3 XR)  
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
428/221 WEB OR SHEET CONTAINING STRUCTURALLY DEFINED  
ELEMENT OR COMPONENT  
428/343 .Adhesive outermost layer  
428/346 ..Heat or solvent activated or sealable  
428/347 ...Heat sealable
- 3 428/906 (0 OR, 3 XR)  
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
428/906 ROLL OR COIL
- 3 606/198 (3 OR, 0 XR)  
Class 606 : SURGERY  
606/1 INSTRUMENTS  
606/191 .Internal pressure applicator (e.g., dilator)  
606/198 ..Expanding dilator (e.g., expanding arm, etc.)
- 2 26/51.3 (1 OR, 1 XR)  
Class 026 : TEXTILES: CLOTH FINISHING  
26/51 STRETCHING OR SPREADING AND WORKING  
26/51.3 .Weft angle adjusting
- 2 26/84 (0 OR, 2 XR)  
Class 026 : TEXTILES: CLOTH FINISHING  
26/71 EXPANDING DEVICE FOR TEXTILE WEBS  
26/80 .Tubular-fabric-enclosed spreader  
26/83 ..With rotary feeder or bearing at spreader  
ends  
26/84 ...Driven
- 2 29/599 (0 OR, 2 XR)  
Class 029 : METAL WORKING  
29/592 METHOD OF MECHANICAL MANUFACTURE  
29/592.1 .Electrical device making  
29/599 ..Superconductor
- 2 53/291 (0 OR, 2 XR)  
Class 053 : PACKAGE MAKING  
53/285 CLOSING PACKAGES AND FILLED RECEPTACLES  
53/287 .Separate closure applying  
53/290 ..With preliminary closure shaping and/or  
treatment  
53/291 ...Unfolding, opening and/or stretching  
capsules or cots
- 2 53/292 (0 OR, 2 XR)  
Class 053 : PACKAGE MAKING  
53/285 CLOSING PACKAGES AND FILLED RECEPTACLES  
53/287 .Separate closure applying  
53/290 ..With preliminary closure shaping and/or  
treatment  
53/291 ...Unfolding, opening and/or stretching  
capsules or cots  
53/292 ....With suction or blast

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- 2 53/429 (0 OR, 2 XR)  
     Class 053 : PACKAGE MAKING  
     53/396 METHODS  
     53/428 .With contents treating  
     53/429 ..Folding
- 2 53/430 (0 OR, 2 XR)  
     Class 053 : PACKAGE MAKING  
     53/396 METHODS  
     53/428 .With contents treating  
     53/430 ..Winding
- 2 53/435 (2 OR, 0 XR)  
     Class 053 : PACKAGE MAKING  
     53/396 METHODS  
     53/428 .With contents treating  
     53/435 ..Cutting
- 2 53/438 (0 OR, 2 XR)  
     Class 053 : PACKAGE MAKING  
     53/396 METHODS  
     53/428 .With contents treating  
     53/436 ..Compacting or stretching  
     53/438 ...Before association with cover material
- 2 53/441 (1 OR, 1 XR)  
     Class 053 : PACKAGE MAKING  
     53/396 METHODS  
     53/441 .Conforming by stretching or shrinking of cover  
             over contents
- 2 53/515 (0 OR, 2 XR)  
     Class 053 : PACKAGE MAKING  
     53/111R WITH CONTENTS TREATING  
     53/113 .Reshaping  
     53/513 ..Cutting  
     53/514 ...Food or edible material  
     53/515 ....Fruit or vegetable
- 2 53/530 (0 OR, 2 XR)  
     Class 053 : PACKAGE MAKING  
     53/111R WITH CONTENTS TREATING  
     53/113 .Reshaping  
     53/523 ..Compacting or stretching  
     53/529 ...Compressing before packaging  
     53/530 ....Through restricted passage
- 2 53/556 (0 OR, 2 XR)  
     Class 053 : PACKAGE MAKING  
     53/556 APPARATUS FOR CONTRACTION OF COVER BY  
             STRETCHING OR SHRINKING
- 2 72/201 (1 OR, 1 XR)  
     Class 072 : METAL DEFORMING  
     72/199 BY USE OF ROLLER OR ROLLER-LIKE TOOL-ELEMENT  
     72/200 .With modification or control of temperature of  
             work, tool or machine  
     72/201 ..Including cooling

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- 2 72/209 (2 OR, 0 XR)  
 Class 072 : METAL DEFORMING  
 72/199 BY USE OF ROLLER OR ROLLER-LIKE TOOL-ELEMENT  
 72/208 .With tool inside hollow work  
 72/209 ..Comprising plug acting on longitudinally  
 moving work
- 2 137/43 (1 OR, 1 XR)  
 Class 137 : FLUID HANDLING  
 137/38 CONTROL BY CHANGE OF POSITION OR INERTIA OF  
 SYSTEM  
 137/43 .Vent opening or closing on tipping container
- 2 156/86 (1 OR, 1 XR)  
 Class 156 : ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL  
 MANUFACTURE  
 156/1 METHODS  
 156/60 .Surface bonding and/or assembly therefor  
 156/84 ..With shrinking of material of lamina  
 156/85 ...Subsequent to assembly of laminae  
 156/86 ....Of lamina covering cylindrical or spherical  
 body
- 2 162/358.3 (0 OR, 2 XR)  
 Class 162 : PAPER MAKING AND FIBER LIBERATION  
 162/232 APPARATUS  
 162/289 .Running or indefinite length product forming  
 and/or treating means  
 162/358.1 ..Press and felt  
 162/358.3 ...Extended nip press
- 2 220/86.2 (1 OR, 1 XR)  
 Class 220 : RECEPTACLES  
 220/694 CONTAINER ATTACHMENT OR ADJUNCT  
 220/86.1 .Filling member  
 220/86.2 ..Automotive type
- 2 280/729 (2 OR, 0 XR)  
 Class 280 : LAND VEHICLES  
 280/29 WHEELED  
 280/727 .Attachment  
 280/728.1 ..Inflatable passenger restraint or confinement  
 (e.g., air bag) or attachment  
 280/729 ...Plural compartment confinement (e.g., "bag  
 within a bag")
- 2 340/689 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540 .Specific condition  
 340/686.1 ..Position responsive  
 340/689 ...Tilt
- 2 383/37 (0 OR, 2 XR)  
 Class 383 : FLEXIBLE BAGS  
 383/37 PLURAL

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- 2 383/904 (0 OR, 2 XR)  
 Class 383 : FLEXIBLE BAGS  
 383/904 FILLING TUBE
- 2 425/326.1 (0 OR, 2 XR)  
 Class 425 : PLASTIC ARTICLE OR EARTHENWARE SHAPING OR  
 TREATING: APPARATUS  
 425/324.1 DIVERSE DISTINCT TYPE SHAPING MEANS  
 425/325 .Shaping orifice and either a downstream  
 preform reshaping means or vulcanizing means including  
 conforming preform support  
 425/326.1 ..Utilizing a fluid pressure differential as a  
 reshaping means
- 2 428/220 (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/98 STRUCTURALLY DEFINED WEB OR SHEET (E.G.,  
 OVERALL DIMENSION, ETC.)  
 428/220 .Physical dimension specified
- 2 428/35.2 (2 OR, 0 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/34.1 HOLLOW OR CONTAINER TYPE ARTICLE (E.G., TUBE,  
 VASE, ETC.)  
 428/35.2 .Nonself-supporting tubular film or bag (e.g.,  
 pouch, envelope, packet, etc.)
- 2 428/35.5 (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/34.1 HOLLOW OR CONTAINER TYPE ARTICLE (E.G., TUBE,  
 VASE, ETC.)  
 428/35.2 .Nonself-supporting tubular film or bag (e.g.,  
 pouch, envelope, packet, etc.)  
 428/35.5 ..Single layer (continuous layer)
- 2 428/913 (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/913 MATERIAL DESIGNED TO BE RESPONSIVE TO  
 TEMPERATURE, LIGHT, MOISTURE, ETC.
- 2 505/432 (2 OR, 0 XR)  
 Class 505 : SUPERCONDUCTOR TECHNOLOGY: APPARATUS,  
 MATERIAL, PROCESS  
 505/300 PROCESSES OF PRODUCING OR TREATING HIGH  
 TEMPERATURE (Tc GREATER THAN 30 K) SUPERCONDUCTOR MATER  
 IAL  
 REOF  
 OR SUPERCONDUCTOR CONTAINING PRODUCTS OR PRECURSORS THE
- 505/430 .Process of making wire, tape, cable, coil, or  
 fiber  
 505/432 ..Isostatic pressing (e.g., HIP, hydrostatic  
 pressing, etc.)